1625

1600

RAW SEQUENCE LISTING DATE: 08/12/2002
PATENT APPLICATION: **US/09/592,695C** TIME: 09:38:16

Input Set : **A:\P1762R1 US.txt**
Output Set: **N:\CRF4\08122002\I592695C.raw**

#21

```
  3 <110> APPLICANT: Cochran, Andrea G.
  4       Skelton, Nicholas J.
  5       Starovasnik, Melissa A.
  7 <120> TITLE OF INVENTION: Structured Peptide Scaffold For Displaying Turn
  8       Libraries On Phage
 10 <130> FILE REFERENCE: P1762R1 US
 12 <140> CURRENT APPLICATION NUMBER: US 09/592,695C
 13 <141> CURRENT FILING DATE: 2000-06-13
 15 <150> PRIOR APPLICATION NUMBER: US 60/139,017
 16 <151> PRIOR FILING DATE: 1999-06-14
 18 <160> NUMBER OF SEQ ID NOS: 40
 20 <210> SEQ ID NO: 1
 21 <211> LENGTH: 10
 22 <212> TYPE: PRT
 23 <213> ORGANISM: Artificial Sequence
 25 <220> FEATURE:
 26 <223> OTHER INFORMATION: turn peptide
 28 <220> FEATURE:
 29 <221> NAME/KEY: UNSURE
 30 <222> LOCATION: 2, 9
 31 <223> OTHER INFORMATION: Xaa at positions 2 or 9 is Trp, Tyr, Phe, His, Ile, Val or
Thr.
 33 <220> FEATURE:
 34 <221> NAME/KEY: UNSURE
 35 <222> LOCATION: 3, 8
 36 <223> OTHER INFORMATION: Xaa at positions 3 or 8 is Trp, Tyr, Phe, Leu, Met, Ile or
Val.
 38 <400> SEQUENCE: 1
W--> 39  Cys Xaa Xaa Glu Gly Asn Lys Xaa Xaa Cys
 40    1               5                  10
 42 <210> SEQ ID NO: 2
 43 <211> LENGTH: 10
 44 <212> TYPE: PRT
 45 <213> ORGANISM: Artificial Sequence
 47 <220> FEATURE:
 48 <223> OTHER INFORMATION: turn peptide
 50 <400> SEQUENCE: 2
 51  Cys Thr Trp Glu Gly Asn Lys Leu Thr Cys
 52    1               5                  10
 54 <210> SEQ ID NO: 3
 55 <211> LENGTH: 12
 56 <212> TYPE: PRT
 57 <213> ORGANISM: Artificial Sequence
 59 <220> FEATURE:
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60 <223> OTHER INFORMATION: turn peptide

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<400> SEQUENCE: 3
Ser Cys Thr Trp Glu Gly Asn Lys Leu Thr Cys Lys
1 5 10
<210> SEQ ID NO: 4
<211> LENGTH: 10
<212> TYPE: PRT
<213> ORGANISM: Artificial Sequence
<220> FEATURE:
<223> OTHER INFORMATION: turn peptide
<400> SEQUENCE: 4
Cys Gly Asn Gln Gly Ser Phe Leu Thr Cys
1 5 10
<210> SEQ ID NO: 5
<211> LENGTH: 10
<212> TYPE: PRT
<213> ORGANISM: Artificial Sequence
<220> FEATURE:
<223> OTHER INFORMATION: turn peptide
<400> SEQUENCE: 5
Cys Thr Trp Gln Gly Ser Phe Leu Thr Cys
1 5 10
<210> SEQ ID NO: 6
<211> LENGTH: 12
<212> TYPE: PRT
<213> ORGANISM: Artificial Sequence
<220> FEATURE:
<223> OTHER INFORMATION: turn peptide
<400> SEQUENCE: 6
Ser Cys Gly Asn Gln Gly Ser Phe Leu Thr Cys Lys
1 5 10
<210> SEQ ID NO: 7
<211> LENGTH: 12
<212> TYPE: PRT
<213> ORGANISM: Artificial Sequence
<220> FEATURE:
<223> OTHER INFORMATION: turn peptide
<400> SEQUENCE: 7
Ser Cys Thr Asn Gln Gly Ser Phe Leu Thr Cys Lys
1 5 10
<210> SEQ ID NO: 8
<211> LENGTH: 12
<212> TYPE: PRT
<213> ORGANISM: Artificial Sequence
<220> FEATURE:
<223> OTHER INFORMATION: turn peptide
<400> SEQUENCE: 8
Ser Cys Gly Trp Gln Gly Ser Phe Leu Thr Cys Lys
1 5 10
<210> SEQ ID NO: 9

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     127 <211> LENGTH: 12
     128 <212> TYPE: PRT
     129 <213> ORGANISM: Artificial Sequence
     131 <220> FEATURE:
     132 <223> OTHER INFORMATION: turn peptide
     134 <400> SEQUENCE: 9
     135  Ser Cys Thr Trp Gln Gly Ser Phe Leu Thr Cys Lys
     136    1               5                  10
     138 <210> SEQ ID NO: 10
     139 <211> LENGTH: 16
     140 <212> TYPE: PRT
     141 <213> ORGANISM: Artificial Sequence
     143 <220> FEATURE:
     144 <223> OTHER INFORMATION: turn peptide
     146 <400> SEQUENCE: 10
     147  Met Gln Ile Gly Val Lys Asn Pro Asp Gly Thr Ile Thr Leu Glu
     148    1               5                  10                  15
     150  Val
     153 <210> SEQ ID NO: 11
     154 <211> LENGTH: 16
     155 <212> TYPE: PRT
     156 <213> ORGANISM: Artificial Sequence
     158 <220> FEATURE:
     159 <223> OTHER INFORMATION: turn peptide
     161 <220> FEATURE:
     162 <221> NAME/KEY: UNSURE
     163 <222> LOCATION: 8
     164 <223> OTHER INFORMATION: Xaa at position 8 is Pro
     166 <220> FEATURE:
     167 <221> NAME/KEY: UNSURE
     168 <222> LOCATION: 9
     169 <223> OTHER INFORMATION: Xaa at position 9 is Ala or Gly
     171 <400> SEQUENCE: 11
W--> 172  Met Gln Ile Gly Val Lys Ser Xaa Xaa Lys Thr Ile Thr Leu Lys
     173    1               5                  10                  15
     175  Val
     178 <210> SEQ ID NO: 12
     179 <211> LENGTH: 10
     180 <212> TYPE: PRT
     181 <213> ORGANISM: Artificial Sequence
     183 <220> FEATURE:
     184 <223> OTHER INFORMATION: turn peptide
     186 <400> SEQUENCE: 12
     187  Cys Thr Lys Val Trp Gln Leu Trp Thr Cys
     188    1               5                  10
     190 <210> SEQ ID NO: 13
     191 <211> LENGTH: 12
     192 <212> TYPE: PRT
     193 <213> ORGANISM: Artificial Sequence
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Input Set : A:\P1762R1 US.txt
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    195 <220> FEATURE:
    196 <223> OTHER INFORMATION: turn peptide
    198 <400> SEQUENCE: 13
    199  Ser Cys Thr Trp Val Trp Gln Leu Leu Thr Cys Lys
    200    1               5                  10
    202 <210> SEQ ID NO: 14
    203 <211> LENGTH: 12
    204 <212> TYPE: PRT
    205 <213> ORGANISM: Artificial Sequence
    207 <220> FEATURE:
    208 <223> OTHER INFORMATION: turn peptide
    210 <400> SEQUENCE: 14
    211  Ser Cys His Phe Gly Pro Leu Thr Trp Val Cys Lys
    212    1               5                  10
    214 <210> SEQ ID NO: 15
    215 <211> LENGTH: 12
    216 <212> TYPE: PRT
    217 <213> ORGANISM: Artificial Sequence
    219 <220> FEATURE:
    220 <223> OTHER INFORMATION: turn peptide
    222 <400> SEQUENCE: 15
    223  Ser Cys Thr Trp Gly Pro Leu Thr Leu Thr Cys Lys
    224    1               5                  10
    226 <210> SEQ ID NO: 16
    227 <211> LENGTH: 10
    228 <212> TYPE: PRT
    229 <213> ORGANISM: Artificial Sequence
    231 <220> FEATURE:
    232 <223> OTHER INFORMATION: turn peptide
    234 <220> FEATURE:
    235 <221> NAME/KEY: UNSURE
    236 <222> LOCATION: 3
    237 <223> OTHER INFORMATION: Xaa is Trp, Tyr, Leu, Val, Thr or Asp.
    239 <400> SEQUENCE: 16
W--> 240  Cys Thr Xaa Glu Gly Asn Lys Leu Thr Cys
    241    1               5                  10
    243 <210> SEQ ID NO: 17
    244 <211> LENGTH: 10
    245 <212> TYPE: PRT
    246 <213> ORGANISM: Artificial Sequence
    248 <220> FEATURE:
    249 <223> OTHER INFORMATION: turn peptide
    251 <220> FEATURE:
    252 <221> NAME/KEY: UNSURE
    253 <222> LOCATION: 3
    254 <223> OTHER INFORMATION: Xaa is Trp, Tyr, Leu, Val, Thr or Asp.
    256 <400> SEQUENCE: 17
W--> 257  Cys Thr Xaa Glu Asn Gly Lys Leu Thr Cys
    258    1               5                  10
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Input Set : A:\P1762R1 US.txt
Output Set: N:\CRF4\08122002\I592695C.raw

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     261 <211> LENGTH: 10
     262 <212> TYPE: PRT
     263 <213> ORGANISM: Artificial Sequence
     265 <220> FEATURE:
     266 <223> OTHER INFORMATION: turn peptide
     268 <220> FEATURE:
     269 <221> NAME/KEY: UNSURE
     270 <222> LOCATION: 3
     271 <223> OTHER INFORMATION: Xaa is Trp, Tyr, Leu, Val, Thr or Asp.
     273 <220> FEATURE:
     274 <221> NAME/KEY: UNSURE
     275 <222> LOCATION: 5
     276 <223> OTHER INFORMATION: Pro is D-Pro
     278 <400> SEQUENCE: 18
W--> 279  Cys Thr Xaa Glu Pro Asn Lys Leu Thr Cys
     280    1               5                  10
     282 <210> SEQ ID NO: 19
     283 <211> LENGTH: 10
     284 <212> TYPE: PRT
     285 <213> ORGANISM: Artificial Sequence
     287 <220> FEATURE:
     288 <223> OTHER INFORMATION: turn peptide
     290 <220> FEATURE:
     291 <221> NAME/KEY: UNSURE
     292 <222> LOCATION: 3
     293 <223> OTHER INFORMATION: Xaa is Trp, Tyr, Leu, Val, Thr or Asp.
     295 <220> FEATURE:
     296 <221> NAME/KEY: UNSURE
     297 <222> LOCATION: 5
     298 <223> OTHER INFORMATION: Pro is D-Pro
     300 <400> SEQUENCE: 19
W--> 301  Cys Thr Xaa Glu Pro Gly Lys Leu Thr Cys
     302    1               5                  10
     304 <210> SEQ ID NO: 20
     305 <211> LENGTH: 10
     306 <212> TYPE: PRT
     307 <213> ORGANISM: Artificial Sequence
     309 <220> FEATURE:
     310 <223> OTHER INFORMATION: turn peptide
     312 <220> FEATURE:
     313 <221> NAME/KEY: UNSURE
     314 <222> LOCATION: 3
     315 <223> OTHER INFORMATION: Xaa is Trp, Tyr, Phe, Leu, Met, Ile, Val or Ala
     317 <400> SEQUENCE: 20
W--> 318  Cys Thr Xaa Glu Gly Asn Lys Leu Thr Cys
     319    1               5                  10
     321 <210> SEQ ID NO: 21
     322 <211> LENGTH: 10
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RAW SEQUENCE LISTING ERROR SUMMARY DATE: 08/12/2002
PATENT APPLICATION: US/09/592,695C TIME: 09:38:17

Input Set : A:\P1762R1 US.txt
Output Set: N:\CRF4\08122002\I592695C.raw

Please Note:
Use of n and/or Xaa have been detected in the Sequence Listing. Please review the Sequence Listing to ensure that a corresponding explanation is presented in the <220> to <223> fields of each sequence which presents at least one n or Xaa.

Seq#:1; Xaa Pos. 2,3,8,9
Seq#:11; Xaa Pos. 8,9
Seq#:16; Xaa Pos. 3
Seq#:17; Xaa Pos. 3
Seq#:18; Xaa Pos. 3
Seq#:19; Xaa Pos. 3
Seq#:20; Xaa Pos. 3
Seq#:21; Xaa Pos. 8
Seq#:22; Xaa Pos. 3
Seq#:23; Xaa Pos. 8
Seq#:25; N Pos. 19,20,31,32,34,35,37,38,40,41,52,53
Seq#:32; Xaa Pos. 6,8

VERIFICATION SUMMARY DATE: 08/12/2002
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Input Set : A:\P1762R1 US.txt
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L:39 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1 after pos.:0
L:172 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:11 after pos.:0
L:240 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:16 after pos.:0
L:257 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:17 after pos.:0
L:279 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:18 after pos.:0
L:301 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:19 after pos.:0
L:318 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:20 after pos.:0
L:335 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:21 after pos.:0
L:352 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:22 after pos.:0
L:369 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:23 after pos.:0
L:401 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:25 after pos.:0
L:403 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:25 after pos.:50
L:496 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:32 after pos.:0